

Interview Summary

Application No.

09/779,071

Applicant(s)

SWILDENS, ERIC SVEN-JOHAN

Examiner

Haresh Patel

Art Unit

2154

All participants (applicant, applicant's representative, PTO personnel):

(1) Haresh Patel.

(3) _____.

(2) Mr. Kirk Wong.

(4) _____.

Date of Interview: 31 August 2007.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☒ No.

If Yes, brief description: _____.

Claim(s) discussed: 1-30.

Identification of prior art discussed: N/A.

Agreement with respect to the claims f) ☒ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: The Examiner and the Applicant discussed an Examiner's amendment. The Applicant went over the claims with the Examiner. The applicant agreed to allow the examiner to do an examiner's amendment to the claims and the specification as attached.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN A NON-EXTENDABLE PERIOD OF THE LONGER OF ONE MONTH OR THIRTY DAYS FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.

Haresh Patel Haresh Patel
Examiner's signature, if required

Summary of Record of Interview Requirements

Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.

Claim 1 (Currently Amended): A process for routing packets through a decrypting load balancing array of servers across a network in a computer environment, the load balancing array of servers support decrypting and encrypting SSL requests and performing SSL session scheduling, comprising ~~the steps of:~~

designating a first load balancing server of the load balancing array of servers as a scheduler that schedules both HTTP and HTTPS traffic including HTTP GET requests;

requesting, by ~~a~~ the scheduler, assignment of a virtual IP address to the scheduler, ~~the scheduler is designated as active scheduler for the load balancing array of servers;~~ wherein ~~all~~ incoming packets over a network from requesting clients destined for the load balancing array of servers are routed through the scheduler via the virtual IP address;

in response to receiving a request packet from a requesting client at the scheduler, routing and load balancing the request packet to a second load balancing server, ~~among a plurality of the~~ load balancing array of servers;

in response to receiving the request packet at the second load balancing server, the second load balancing server decrypting the response packet of an SSL session, routing and load balancing the request packet to a back end Web server among a cluster of back end Web servers, ~~+~~ wherein the back end Web server's response packet to the request packet is sent to the second load balancing server;

in response to receiving the response packet at the second load balancing server, the second load balancing server encrypting the response packet of the SSL session and sending the response packet directly to the requesting client;

prior to the sending step, ~~further comprising:~~ ~~parsing,~~ by the second load balancing server, parsing an outgoing HTML page(s) markup language page in the response packet to ~~determine selected~~ identify given content served by a content delivery network; and

~~modifying,~~ by the second load balancing server, modifying URLs for the selected given content in an HTML the markup language page in the response packet in order to serve the selected so that the given content is served from

the content delivery network in response to requests from requesting clients.

Claim 2 (Currently Amended): The process of Claim 1, wherein the scheduler ~~is a load balancing server and~~ routes and load balances client requests to itself.

Claim 4 (Currently Amended): The process of Claim 1, wherein the scheduler detects the failure of any load balancing servers among ~~a plurality of load balancing servers in~~ the load balancing array of servers; and wherein the scheduler stops routing packets to any failed load balancing servers.

Claim 5 (Currently Amended): The process of Claim 1, wherein the second load balancing server schedules sessions to back end Web servers based on a cookie or session ID.

Claim 6 (Currently Amended): The process of Claim 1, wherein the second load balancing server uses cookie injection to map a client to a specific back end Web server.

Claim 7 (Currently Amended): The process of Claim 1, wherein the second load balancing server decrypts a request packet in an SSL session before routing and load balancing the request packet to a back end Web server.

Claim 8 (Currently Amended): The process of Claim 7, wherein the second load balancing server encrypts a response packet in an SSL session before sending the response packet directly to the requesting client.

Claim 9 (Currently Amended): The process of Claim 1, wherein the second load balancing server establishes a connection with the requesting client and the requesting client keeps the connection alive with the load balancing server.

Claim 10 (Currently Amended): The process of Claim 9, wherein the second load balancing server performs URL based scheduling of request packets.

Claim 11 (Currently Amended): The process of Claim 9, wherein the second load balancing server performs hash scheduling of request packets.

Claim 12 (Currently Amended): The process of Claim 1, wherein the second load balancing server maintains persistent connections in paths requiring persistent connections; and wherein the second load balancing server uses hash group based persistence to maintain its persistence tables.

Claim 13 (Currently Amended): The process of Claim 1, wherein the second load balancing server detects when a back end Web server fails; and wherein the second load balancing server stops routing request packets to failed back end Web servers.

Claim 16 (Currently Amended): An apparatus for routing packets through a decrypting load balancing array of servers across a network in a computer environment, the load balancing array of servers support decrypting and

encrypting SSL requests and performing SSL session scheduling, comprising:

a first load balancing server of the load balancing array of servers designated as a scheduler that schedules both HTTP and HTTPS traffic including HTTP GET requests;

~~a scheduler,~~ the scheduler requests assignment of a virtual IP address to the scheduler, ~~the scheduler is designated as active scheduler for the load balancing array of servers;~~ wherein all incoming packets over a network from requesting clients destined for the load balancing array of servers are routed through the scheduler via the virtual IP address;

~~wherein~~ the scheduler routes and load balances a request packet from a requesting client to a second load balancing server, ~~among a plurality of the~~ load balancing array of servers;

~~wherein~~ the second load balancing server receives the request packet, decrypts the response packet of an SSL session, routes and load balances the request packet to a back end Web server among a cluster of back end Web servers, ~~wherein~~ the back end Web server's response

packet to the request packet is sent to the second load balancing server;

~~wherein~~ the second load balancing server receives the response packet, encrypts the response packet of the SSL session and sends the response packet directly to the requesting client;

a module for parsing, by the second load balancing server, an outgoing HTML page(s) markup language page in the response packet to ~~determine selected~~ identify given content served by a content delivery network; and

a module for modifying, by the second load balancing server, URLs for the ~~selected~~ given content in ~~an HTML the markup language page in the response packet in order to serve the selected~~ so that the given content is served from the content delivery network in response to requests from requesting clients.

Claim 17 (Currently Amended): The apparatus of Claim 16, wherein the scheduler ~~is a load balancing server and~~ routes and load balances client requests to itself.

Claim 19 (Currently Amended): The apparatus of Claim 16, wherein the scheduler detects the failure of any load balancing servers among ~~a plurality of load balancing servers~~ in the load balancing array of servers; and wherein the scheduler stops routing packets to any failed load balancing servers.

Claim 20 (Currently Amended): The apparatus of Claim 16, wherein the second load balancing server schedules sessions to back end Web servers based on a cookie or session ID.

Claim 21 (Currently Amended): The apparatus of Claim 16, wherein the second load balancing server uses cookie injection to map a client to a specific back end Web server.

Claim 22 (Currently Amended): The apparatus of Claim 16, wherein the second load balancing server decrypts the request packet when it is an SSL session before routing and load balancing the request packet to a back end Web server.

Claim 23 (Currently Amended): The apparatus of Claim 22, wherein the second load balancing server encrypts the response packet when it is an SSL session before sending the response packet directly to the requesting client.

Claim 24 (Currently Amended): The apparatus of Claim 16, wherein the second load balancing server establishes a connection with the requesting client and the requesting client keeps the connection alive with the load balancing server.

Claim 25 (Currently Amended): The apparatus of Claim 24, wherein the second load balancing server performs URL based scheduling of request packets.

Claim 26 (Currently Amended): The apparatus of Claim 24, wherein the second load balancing server performs hash scheduling of request packets.

Claim 27 (Currently Amended): The apparatus of Claim 16, wherein the second load balancing server maintains persistent connections in paths requiring persistent

connections; and wherein the load balancing server uses hash group based persistence to maintain its persistence tables.

Claim 28 (Currently Amended): The apparatus of Claim 16, wherein second the load balancing server detects when a back end Web server fails; and wherein the second load balancing server stops routing request packets to failed back end Web servers.